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DOCKET NO. ORT1509-PCT/JJPR-0177
Serial No. 10/537,732
Reply to Office Action dated January 23, 2009

Listing of Claims:

1. *(Currently amended)* A method for identifying compounds that modulate human orexin-2 receptor activity, comprising:
 - (a) combining a putative modulator of human orexin-2 receptor activity with human orexin-2 receptors contained within membranes of PFSK-1 cells non-recombinantly possessing the human orexin-2 receptor; and
 - (b) measuring an effect of the modulator on activity of the human orexin-2 receptor.
- 2.-4. *(Canceled)*
5. *(Original)* The method of claim 1, wherein the effect measured in step (b) is binding of the putative modulator to the orexin-2 receptors.
6. *(Original)* The method of claim 1, wherein the effect measured in step (b) is competition of the putative modulator with a known ligand of the human orexin-2 receptor for binding to the receptors.
7. *(Original)* The method of claim 2, wherein the effect measured in step (b) is modulation of a human orexin-2 receptor intracellular second messenger.
8. *(Original)* The method of claim 7, wherein the intracellular second messenger is selected from a group consisting of cAMP, Ca⁺⁺, and a reporter gene product.
9. *(Original)* The method of claim 8, wherein the cells are transfected with a G α -protein DNA construct.
10. *(Original)* The method of claim 8, wherein the intracellular second messenger is Ca⁺⁺, detected with a fluorescent Ca⁺⁺ indicator.

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11. (Original) The method of claim 1, adapted to distinguish the putative modulator as an agonist, antagonist or inverse agonist of the orexin-2 receptor.

12.-21. (Canceled)